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54 ATC	108 ATT I	162 ATC I	216 AAC N	270 TTC F	324 CTT L	378 TGT C
GAA	CTG	TGC C	GAC	CTC L	ATT I	TCT
TGG	CTG	GAG	ACC	TGC	AAA K	GCA A
45 TTG	9 299 66	153 GCG A	207 GCC A	261 ATC I	315 AGG R	369 GTG V
AGC	CAG Q	ACT	GAA E	ე ე	AGC S	GAA E
TTC	TTC	CTG	CTT	GTG V	TCC	TTT
36 36	90 TGC C	144 GCC A	198 CTG L	252 TTT F	306 <b>AA</b> G K	360 GCC A
CTT	CGT R	ATT I	CCA P	ATA I	ATG M	TAT Y
929	GTT V	၁၅၅	TAC	9 299	ATC I	GTA V
27 GAG	81 ACT T	135 TGC C	189 CTC L	243 ATC I	297 GGC G	351 ATA I
GAG	TCA	TGT	AGC	TGG W	GTA	TTT F
AAA	AAC	GGT G	CAC H	GCC A	ATT I	ATG M
18 CAG	72 GAC D	126 ATT I	180 CAA Q	234 GCT A	288 GGC G	342 CTG L
929	AAA K	ATT I	GAC D	999	CTA L	ATT I
TCT	GCC	GTG V	TCT	TAT	GTT V	TTC
922 6	63 ATG M	117 AAT N	171 GTA V	225 ATC I	279 TCT S	333 TAT Y
CTA	AAG	GGA G	TTT F	GAC D	CTG L	GCG A
GCC CTA	500	TTT F	TTC	GAT D	TGC	CTG L
5						

432 AAG CAG K Q	486 3G AAA K	540 sc rgr c	594 CT GAG	648 NT CTT L	702 \T CAC H	756
CTG AA L K	CAG TGG Q W	AAT TGC N C	CGG ACT R T	AAC AAT N N	TTT TAT F Y	951 339
423 TTC C' F L	477 GAC C	531 GAC AV D N	585 TTC CO F R	639 ATG A	693 GGT T	747 CAC G
CTC 1	GAT (	CAG (	GCC 1		CCT	
AAC	AAT N	CTC	TCT	TGT	GTG V	AAC
414 CCC P	468 AAC N	522 ATG M	576 ACA T	630 TGC C	684 GGC G	738 ATG
ACA	CCA	CTC	, TAC	CAA	. CTA	מטט
TTC	CCT	AGG R	AAA K		AAA K	
405 TTT F	459 3 AGC	513 ; GAC D	567 5 CAA Q	621 ; CCT P	675 TGT C	729
A GAC D	AAC N	TGG W	TGG W	TGG W	s GCT A	ATC.
CGA R	A AAC	A ACC	GAC D	CCC	GAG E	) CTG
396 A CAA Q	450 CAA	504 3 AAA K	558 A TCA S	612 : TAT Y	666 CTG	720 GAA
A ACA T	; TAC Y	ACC T	ccA P		AAC N	TAT
A GCA A	AGG R	GTC V	r GGT G	GCT A	r crc L	JEC TGC
387 A GCF A	441 ATG CTA GAG M L E	495 GGP	549 N AAT	603 CAT	657 A CC1	711
ACF T	; CTP	AA1	GT?	: AA1 N	A GAZ	r CAG
ATC	ATG	AAC	9	AA1 N	AAJ	AA

## FIGURE 1B

	-		ST.	4		m	4	_	J	ניז	Ú	O F	<b>-</b>	0	_	<	4	ന ദ	r )
	GGT	Ŋ	864	ATA		918	ATA	070		ATG	, ,	0701	- -	1080	TT	1134	ATI	1188	OT.
810	CTG	ı		GTT GCC ACC			CTA			CAG	•	ا د د	IAC III	•	TIG AAA GGA GAA TIT	• •	AAA ATA		SAA GGA AAA ACA AAA AAA AGG GCG GCC CCC GAT TAT TGA GGG GTC
	GTT CTC	ı		၁၁၅			CIC			CCA AGT		ָר ב			GGA		999		TGA
	GTT	>	855			606	TCT	690			7,10	/ TOT	CAI GAC	1071	AAA	1125	TAA TTT	1179	TAT
801	TGG	M		AGT			AGC			ACA TTG	·	د د	CAI	•	${ m TTG}$	•	TAA	•	GAT
	GCC ATT CTC TGC TGG ACT TTT TGG	[±4		GAA TAT TAA GCA TAA AGT			GGT GCT GGA ACC AGC			ACA		Ę	]		CTG		$\mathbf{T}\mathbf{T}\mathbf{I}$		ပ္ပ
	ACT	₽	846	GCA		900	GGA	05.4	7	CTT	0	100g	TGC AGI ICI	1062	TAT AGA	1116	GCT TAT	1170	ညည
792	$_{\rm TGG}$	3		TAA	×		GCT			$\mathtt{TGT}$	•			, ,		, ,	GCT	•	929
	TGC	ن ن		TAT	<b>&gt;</b>		GGT			GTG		ב ב	71.1		TTA		CCT		AGG
	CTC	ᆸ	837		घ	891	TTT (	0.45	74.7	CGT	Ċ	999	ر ر	1053	CAA CAT	1107	TCC ATC	1161	AAA
783	ATT	Н		ATT	<b>-</b>		GGA		•	TAA		Ę	ICA	• •	CAA	•		•	AAA
	၁၁၅	A		AGA	<b>~</b>		GAC TCT			CAC		ر 1	AIC		CTG		ACT		ACA
	GGA TTT	[±ı	828	AGC	S)	882	GAC	960	000	CCA		) ) ) (	AGG	1044	ATT	1098	ATA ACT	1152	AAA
774	GGA	9		TAC TGG AGC AGA ATT	3		AGT			သည		E	111	τ-1	AGC ATT	, ,	ATA	•	GGA
	TTT	[E4					900			$\mathtt{TGT}$		Ç			TCT		ATA		GAA
	TGG	<b>3</b>	819	TTC	iz.	873	TCC	700	176	GTT	5	אמר במע	ACT	1035	TAG	1089	$\mathbf{TGC}$	1143	TTC
<b>1</b> 65		æ		ATG	Σ		CCT			CAC		ر ز	ງ ວ່ວ	7	TCC TAG		GAA AAA TGC	<b>~</b> 1	AAT ACA TTC
	GTT	>		ပ္ပ	<b>⊑</b> ⊣		CCT			TTC		É	GIA		TCA		GAA		AAT

# FIGURE 1C

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1242 T TGT AAT	1296 A ACC CTG	
1233 5 GGG TAA AAT	1287 A AAG TTT AAA	
1224 F TCC CCG	1278 AGC CTA	3. H
CGJ	GGA	TTT CT 3'
ACC	ວວວ	SSS
1215 TGT AAA	1269 ATA GGG	1323 CAA ACT
CCA	AAC	ACC
1206 AAC TCG TAA	1260 ATT CCC CAA	1314 AAG GAG TTT
•		•
1197 CCG AGC CCG	1251 CCC CCC ACA	1305 GGG GGG CCT

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55 AGG	109 CTC	163 GCG	217 CCT	271 TAG	325 TTC	379 TCC	433 GAT	487 GCC
CCT	ACT	CCA	CTG	GCT	TTT	GTC	သသ	990
46 CAA GTT	999	CAG	໑ລລ	GTG	TTC	AGC	IGC	CAC
46 CAA	100	154 CGG	208 CCG	262 GAG	316 TTT	370 AGA	424 CCC	478 GGG
TCC	CCT	သသ	CTG	TGG	TTT	GAA	GTT	GTG
TTC	OŢO	CAA	TGG	ລອວ	TTT	AGA	GAA	299
37 GAC	91 AGC	145 ACC	199 CCC	253 CGG	307 TTT	361 GGA	415 GAA	469 GCG
ACG	TGA	AGG	TGG	CAG	CIT	AGA	ວອວ	CAG
TGC	AGG	ACT	AGC	GGA	GGA	999	CIC	ລວລ
28 TAC	82 CAG	136 ccc	190 TGC	244 GAG	298 CCA	352 GGG	406 GCT	460 TAT
ATT	CTG	ACA	TTG	TGG	TGC	299	໑ͻͻ	GAC
19 AAA GGG	ATC	GAA	AGT	ACT	TGC	299	CCT	ညည
19 AAA	73 CCT	127 CAA	181 GAG	235 AGG	289 AAC	343 GGC	397 AGC	451 GTC
${ m TTT}$	GAC	GGA	GCT	GAG	AGC	GAC	TGC	TGC
CAT	CTG	GAG	TGC	226 GAC TCG	ICC	299	CAA	ອວວ
10 CAC	64 CTT	118 TGA GAG	172 GCA	226 GAC	280 CTT	334 GGC	388 AGC	442 GAG CCC CCG CCG
ວອວ	TAT	999	GCT CGA	cer cce	CAG AGA	CCA GGA	AGC TGA	သသ
10 5'TCGA CGC CAC CA	CAT TAT	GCT	GCT	CGT	CAG	CCA	AGC	GAG

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541 GGA	595 <b>TGT</b> C	649 AGT S	703 TTA L	757 GTT V	811 GGA G	865 AGT S
AAA	AAG K		ACT	GTG V		GGA
GTG	GTG V	TCC	CTC	CCT P	ATG M	TTT F
532 GTG	586 TCC S	640 ATG M	694 GTT V		802 GGG G	856 TAC Y
GAT	GAT D	TTA L	AAT N	TAC	GTG V	TGG W
TAG	GAA	TGG W	AAT N	ACT	ATT I	GCA A
523 GAG	577 AGA R	631 TTT F		739 TTG		847 CTT L
TGG	GCC	CTC	TAC	ATT I	CTT L	CTT
CCT	ATG M	CTG	GAC D	GTC V	TTC	${ m TTG}$
514 TGC	568 ACA	622 AAT N	676 AGG R	730 GCA A		838 CTG L
TTT	CIC	CTC	ATG	GAA E	TGC	AAT N
ອວວ	999	GCC	TGG W	GAG E	GTT V	AGA R
505 CTG	559 ACG	613 TAC Y	667 GCT A	721 GTA V	775 GCT A	829 AAA K
TCG	CTT	CTC	TCT	AGG R	ATT I	GTG V
CGA	TCC	CTG L	GTT V		ATG M	ACG
496 CGA	550 TTC	604 TGC C	658 GCA A	712 GAA E	766 GTC V	820 GGA G
CAG CGC	299	CGC R	${ m TTG}$	GCA	CCG P	TGT
CAG	TGG GGC	CTG CGC L R	GTG TTG V L	ACT GCA T A	CAT CCG H P	820 TAT TGT GGA Y

## IGURE 2B

# FIGURE 2C

883 892 901 910 919  TGT GTA GAA CTG GCT TGT GGC GTT TGG ACA TAT GAA CAG C V E L A C G V W T Y E Q	964 973 TTG AAA GCC AGG ATG L K A R M	982 1000 1009 1018 1027 ACA AAT TAT GGA TTA CCT AGA TAT CGG TGG CTT ACT CAT GCT TGG AAT TTT TTT T N Y G L P R Y R W L T H A W N F F	1036 1045 1054 1063 1072 1081 CAG AGA GATT TAG TGC TGC TGG GGA GTA GTA TAT TTC ACT GAC TGG GAA ATG Q R E F K C C G V V Y F T D W L E M	1135 TGT C	1144 1153 1162 1171 1180 1189 TCC AAA CAC CAC CAG GAA GAT CTC AGT GAC CTT TAT CAA GAG GGT TGT GGG S K Q A H Q E D L S D L Y Q E G C G	1207 1216 1225 1234 1243 TCC TTT TTG AGA GGA ACC AAA CAA CTG CAG GTG CTG AGG TTT S F L R G T K Q L Q V L R F
GAA E	AGG R	TTT F	gaa E	GGA G	TGT C	AGG R
TAT Y	GCC	AAT N	TTG L	CCA P	GGT	CTG L
910 ACA T	964 AAA K	.018 TGG W	.072 TGG W	126 TTC F	.180 GAG E	.234 GTG V
TGG W	TTG	1 GCT A	1 GAC D	1 GAA E	CAA O	1 CAG Q
GTT V	ACT T	CAT H	ACT	AGA R	TAT Y	${ m cTG}$
901 GGC G	946 955 CAA TGG TCA GAT ATG GTC ACT Q W S D M V T	.009 ACT T	.063 TTC F	.117 GTT V	.171 CTT L	.225 CAA Q
TGT C	ATG M	$\begin{array}{c} 1 \\ \text{CTT} \\ \text{L} \end{array}$	1 TAT Y	1 TGT C	1 GAC D	1 AAA K
GCT A	GAT D	TGG W	GTA V	TGC	AGT	ACC T
892 CTG L	946 TCA S	.000 CGG R	.054 GTA V	108 TCC S	.162 CTC L	216 GGA G
GAA E	TGG W	1 TAT Y	1 GGA G	1 GAT D	1 GAT D	1 AGA R
GTA V	CAA Q	AGA R	TGT C	CCA P	GAA E	TTG L
883 TGT C	937 3TA V	991 CCT P	.045 TGC C	099 CCC P	.153 CAG Q	TTT F
${f TTC}$	CCA	TTA L	J AAG K	1 TGG W	CAC H	TCC S
ATT I	GTT V	GGA G	TTT F	GAC D	GCC	TAT Y
874 GTC V	928 ATG GTT CCA ( M V P	982 <b>TAT</b> Y	.036 GAG E	.090 ATG M	.144 CAG Q	1198 ATG M
CTT	$_{\mathbf{L}}^{\mathbf{CTT}}$	AAT N	1 AGA R	1 GAG E	1 AAA K	1198 AAG AAA ATG TAT K K M Y
874 TTG CTT GTC ATT TTC L L V I F	GAA CTT Z	ACA T	CAG Q	ACA	TCC	AAG K

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1297	ATT ACT	SIGVTQILAMILTIT	1351	GCT CTG TAT TAT GAT AGA AGG GAG CCG GGG ACA GAC CAA ATG ATG	Σ	1406		011 010	N D N S Q H L S C P S V E L L	1459	TTT AAT	L S R I F E H T S M A N S F N	1513	ACC ACA	* 1 3 3 W 3	( (	126/	TTT CAG AAA	1621	TTG CCA TAA AAT AAC ACC TAA GCA TAT ACT ATT CTA
	ACC	H		CAA	Ø		ر د د	5	ഥ		AGC	ഗ		AAA				TTT		ACT
1288	CIC	ı	1342	GAC	Ω	1306		MID	>	1450	AAC	z	1504	AAG		1	1558	GAA TTT TTG AGT ACA TAC TAT GTG	1612	TAT
•	ATT	н	` .	ACA	₽	·		¥2.	လ		GCA	Ø		CAG			•	TAT		GCA
	ATG	Σ.		999	G		ر د د		Ы		ATG	Σ		TCA				TAC	!	TAA
1279	ညည	A	1333	900	പ	1207	) E	101	ບ	1441	$\mathbf{I}^{\mathbf{C}}$	S	1495	ATG			1549	ACA	1603	ACC
7	CTG	1		GAG	臼		ר כ E	1 CA	လ		ACA	E	<del></del>	GAA		,		AGT		AAC
	ATC	H		AGG	Z.		ָ ב	5	ы		CAC	H		AAA				${ m TTG}$	!	AAT
1270	CAA	a	1324	AGA	<b>x</b>	1270	ָ הַלָּ הַלָּ	C.B.C	H	1432	GAA	ध्य	1486	TAA	*		1540	TTT	1594	TAA
-	ACA	E⊣		GAT	Ω	•	֓֞֝֟֝֞֝֞֝֞֝֞֝֞֝֞֝֓֞֝֞֝֓֞֝֞֞֝֞֓֓֞֝֞֝֓֓֞֞֝֞֓֓֞֝֞֞֓֓֞֝֞֡֞֝֞֡	547	ø	_	TTT	ഥ		TTA	L			GAA		CCA
	$\mathtt{GTG}$	^		TAT	×		Ę	171	တ		ATC	Н		GAG	田			TGT		TTG
1261	999	Ŋ	1315	TAT	×	1360	) E	144 144 144 144 144 144 144 144 144 144	Z	1423	AGA	ĸ	1477	GAG	闰		1531	TGG ACT TGT	1585	ATG
_	ATT	н	-	CTG	ı		ן ק	J S	Ω	~	TCA	ഗ		ATG	Σ			TGG	_	ATA AAA ATG
	TCC	S		GCT	Ø		ا د د	A T	z		CTG	1		GAG	ы			TAC		ATA
1252	ATC	н	1306		3	0				1414		လ	1468				1522	TTT	1576	GAA
7	CTG GGA ATC	ပ	П	CTG CTC TGG	П	ſ	י ב	ICC IIG AAG	,ı		AAA CCA AGC	а		ACA CAC TTT	I			AAC TTG		GTA GAA
	CIG	ı		CTG	ы		Č	) ]	လ		AAA	×		ACA	₽			AAC		TAT

1675 AAT	1729 TGT	1783 GCA	1837 AAG	1891 . TAG	1945 TGC	1999 GAT	2053 TTG	2107
3AC	1729 GCC TGT	1783 TTA GCA	1837 GTA AAG	1 ACA	1945 TGA TGC	1999 TGT GAT	2053 ACA TTG	2 FAT
ľG (	GTA (	TGA 1		ľa 7	TTC 1			rg 1
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1666 CAC	1720 TGT	1774 ; GTT	1828 . GCC	1882 A ATG	1936 TTC	1990 . CCT	2044 . GCT	2098 AAT
1666 1675 CAC CAC CTG GAC AAT	1720 CAC TGT	1774 ATG GTT	1828 GGA GCC ATA	1882 1891 TAA ATG CTA ACA TAG	1936 CTA TTC	1990 CTA CCT AAA	2044 CAA GCT AAC	2098 2107 TTA AAT CTG TAT AAT
1657 GTC ATA AGT	ACC		ACT	AAT	GAT	TGA	SAG	
1657 ATA		1765 TGA GGC AGC	1819 GGG	1873 ACT			2035 TTA AAA GAG	2089 AAG TCT GTG
16 IC #	1711 TGT CAT	17 3A G	1819 GGT GGG	1873 TAA AGT ACT	1927 CTC AGC	1981 TAT TGG	20 FA P	20 4G T
				Ä				
CAT	AGA	TTT	TAT	TAF	TTA	CAA	CAC	TAT
1648 TTT	1702 GAC	1756 ATG	1810 : ACA	1864 ATA	1918 TTA	1972 TTT	2026	2080   GTA
1 NAG	1702 GAA GAC	1756 GTT ATG	1810 GTC ACA TAT	1 AGT	1918 CTT TTA	1972 AAC TTT	2026 TCT TAC CAC	2 ITT
1648 GAA AAG TTT	1693 TAA AAT GCT (	ACA (		1855 1864 CTA CCA ACT AGT ATA	TAA (	GAA .	2017 CTA AAA TAT	2071 2080 GAT CAG GGA TTT TTT GTA TAT
	) []		1. 1.4	55 A 4		53 64	7. [ A]	7.1 K
1639 ATG	1693 AAT	1747 AAC	1801 AAA	1855 CCA	1909 TAA	1963 . TCA	2017 AAA	2071 GGA
AGG	TAA	1747 CTG AAC	TGC	$\mathtt{CTA}$	1909 TAC TAA	1963 ATA TCA		CAG
1639 ATG AGG ATG	CCT	TTA	CCA	CTT	AAA	TAT	TTA	GAT
1630. AAA	1684 TGC	1738 , CTT	1792 CAT	1846 TTA	1900 [ AGA	1954 AAT	2008 TGG	2062 . GCT
16 T P	16 A T	17 iA C	1792 CCG CAT	18 IT I	19 T. P	19 'A A	20 10 10	2062 TCT TAA GCT
TT	TG	TG	5	G.	GI	AT	TG	T
1630 TGC TTT AAA	1684 AAT TGA TGC	1738 GTA TGA CTT	TTT	1846 GTT GAT TTA	1900 GAA GTT AGA	1954 TAA ATA AAT	2008 TIT TGC TGG	TCT

# FIGURE 2E

2161 GAA AAT	2215 TTA CTA	2269 ACC ACT	2323 TAG TCT	2377 TCA GAA	2431 AAA CAC	2485 CCA AGT	2539 TTG TGA	2593 TGA TTA
AAG	GCT	TTA	ATG	GAT	ACT	TCT	TGC	CAC
2152 TAT GAA	2206 <b>AAT AAA</b>	2260 AAA TAC	2314 TTC AGA	2368 TTA GTT GAT	2422 TTT GAC	2476 CAA TAG	2530 GAA AAA TGC	2584 TTA TTT CAC
CAT	GTT	TTT	TTA	AAC	CTT	AAG	CCA	GTT
2143 AAT AAC	2197 TTT CCT	2251 CTG TTA	2305 GAA TCA TTA	2359 GCA CAT AAC	2413 AAG ACT	2467 AAC AAG	2521 TTT TCT	2575 TTC TTT
AAG	သည	TAA			ATG	CCA	TCT	
2134 AAT GTT	2188 TTT TTA	2242 CAC ATA	2296 GAT ACA TAG	2350 ATA AGA AAA TTT	2404 TCC CAA	2458 CCT TCT	2512 TAG TGT	2557 2566 CAT GTG ACA ATT TAG AGA
GAT	TTA	TTA	TGT		TTC	${ m TTG}$	AAA	ACA
2125 AGT TCT	2179 GCA TCA	2233 CTT ATA	2287 TAC CAG	2341 GTA TTA	2395 CTG TTT	2449 TTA TCT	2503 TAC AGA	2557 CAT GTG
TTC	ATA	999	AAT	GAA	ATG	AGC	TTC	AAA
2116 : GAT	2170 : TGT	2224	2278 GAA	2332 TAG	2386 TGT	2440 TTA AAA		2548 \ TTA
2116 TCA GTC GAT	TCC	2224 TTC TGT CCT	TTT	CTI	ACT	TTA	2494 CAA TAT AAA	2548 GAA TCA TTA
TCA	TTG	TTC	AAT	GGT	AGG	TTT	CAA	GAA

### IGURE 2F

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2647	TAG TAT	2701	GTT TAT	2755	AGA GAG
	GTA		m TTT		TCT
2638	AGA	2692	TAT	2746	
2	ACA AGA	(7	GTG TAT	0	ATA TTT
	${ m TTT}$		TTT		TAA
2629	TTT	2683	; TAT	2737	TGT CAA
.,	AAT	(7	CTG	(1	$\mathtt{TGT}$
	TTA		TTA		ATG
2620	TTA	2674	ATT	2728	AAA
(1	AGA	(1	TGC	(1	ATT
	CAC		AAG		AAA
2611	TTA	2665	GAA	2719	AAG
(1	AAA	(7	TGG	2	GGA
	၁၅၅		AAA		TAT
2602	TGT	2656	TTG	2710	GAA
(7	TAC	N	TAT TTG	(7	TCA GAA
	ATA		ATT		TTC

2764 TAA AAA AAA A 3'

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FIGURE 3

7	ΤV
<del></del>	STVRCFOGLLIFGNVIIGMCSIALMAECIF
38	FVSDQHSLYPLLEATDNDDIYGAAWIGIFVGICLF 2651154 FVSDQNSLYPLLEATNNDDIYAAAWIGMSVGICLF 9443785
t t	CLSVLGIVGIMKSSRKILLAYFILMFIVYAFEVAS 2651154 CLSVLGIVGIMKSNRKILLVYFILMFIVYAFEVAS 9443785
106	CITAATQRDFFTPNLFLKQMLERYQNNSPPNNDDQ 2651154 CITAATQRDFFTPNLFLKQMLERYQNNSPPNNDDQ 9443785
141 141	WKNNGVTKTWDRLMLQDNCCGVNGPSDWQKYTSAF 2651154 WKNNGVTKTWDRLMLQDNCCGVNGPSDWQKYTSAF 9443785
176 176	RTENNDADYPWPRQCCVMNNLKEPLNLEACKLGVP 2651154 RTENSDADYPWPRQCCVMNSLKEPLNLDACKLGVP 9443785
211	GFYHNOGCYELISGPMNRHAWGVAWFGFAILCWTF 2651154 GYYHSHGCYELISGPMNRHAWGVAWFGFAILCWTF 9443785
246 246	WVLLGTMFYWSRIEY WVLLGTMFYWSRIDY g443785

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### **FIGURE 4A**

] 2674553 g2447007	2674553 g2447007
HTSMA	
SRIFEH	
IDNSOHLSCPSVELLKPSLSRIFEHTSMA 2674553	
SCPSVEL	
OSTHOSN	E L H Y
K N D N S	HFEMEEL KLEHY
259 <u>O M M S L K N</u> 249	N S F N T N T I I I I I I I I I I I I I I I I
259 249	294 249

FIGURE 41

	GCCC-TACCGTGTGCGCAGAAGGGGAGGCTT 2651154dha GCGTGCAGAGAGCCGACAGTACCAGAGAGGGA 9443784	
38	TGCCTTCAGCTTGGGGAAATCCCGAAGATGGCCA GGAGAGGCTTGGGGGAAATCCTGAAGATGGCCA 9443784	
88 88	AAGACAACTGTTCGTTGCTTCCAGGGCCTG 2651154dna AAGACGACTGTTCGTTGCTTCCAGGGCCTG g443784	
103	CTGATTTTGGAAATGTGATTATTGGTTGTTGCG CTGATTTTTGGAAATGTGATTATCGGTATGTGCAG G443784	
138	CATTGCCCTGACTGCGGAGTGCATCTTCTTGTAT 2651154dna CATCGCCCTGATGGCAGAGTGCATCTTCTTGTAT 9443784	
173 174	CTGACCAACACCTCTACCCACTGCTTGAAGCC 2651154dha CAGACCAAAAACAGCCTCTACCCACTGCTTGAAGCC 9443784	
208	ACCGACAACGATGACATCTATGGGGCTGCCTGGAT 2651154dha ACCAACAATGACGACATCTATGCGGCAGCCTGGAT 9443784	
243 244	CGGCATATTGTGGGCATCTGCCTCTTCTGCCTGT TGGCATGTCTGGCATCTGCCTCTTCTGCCTCT TGGCATGTCT GTTGGCATCTGCCTCTTCTGCCTCT	

### FIGURE 5A

278	CTGTTCTAGGCATTGTAGGCATCATGAAGTCCAGC 2651154dna
279	CTGTCCTGGGCATCGTAGGCATCATGAAGTCCAAC g443784
313	AGGAAAATTCTTGGCGTATTTCATTCTGATGTT 2651154cha AGGAAAATTCTTGGTGTATTTCATCCTGATGTT 9443784
348 349	TATAGTATATGCTTTGAAGTGGCATCTTGTATCA TATTGTATAGCTTTTGAAGTGGCATCTTGTATCA 9443784
383	CAGCAGCAACACGAGACTTTTCACACCAAC 2651154dha
384	CAGCAGCAACACGAGACTTTTCACACCAAC 9443784
418	CTCTTCCTGAAGCAGATGCTAGAGAGGTACCAAAA 2651154dha
419	CTCTTCCTGAAGCAGATGCTGGAGAGATACCAAAA g443784
453	CAACAGCCTCCAAACAATGATGACCAGTGGAAAA 2651154dha
454	CAACAGTCCTCCAAACAATGATGACCAATGGAAAA g443784
488	ACAATGGAGTCACCAAAACCTGGGACAGGCTCATG 2651154dha ACAATGGAGTCAAGACCTGGGACAGACTTATG 9443784
523	CTCCAGGACAATTGCTGTGGCGTAAATGGTCCATC 2651154dna
524	CTCCAGGACAATTGCTGTGTAAATGGCCGTC g443784

#### FIGURE 5B

CTGGCAGAATACACTCTGCCTTCCGGACTG CTGGCAGAATACACCTCTGCCTTCCGGACTG ATAATGATGCTGACTACCCTGGCCTCAA
CGATGCTGACTACCCCTGGCCTCGTCAA TTATGAACAATCTTAAAGAACCTCTCAA TTATGAACAGCCTTAAAGAACCTCTCAA
CTTGTAAACTAGGCGTGCCTGGTTTTT CCTGCAAATTAGGAGTGCCTGGATACT
CAGGGTGCTATGAACTGATCTCGGT CATGGCTGCTATGAGCTGATCTCTGGA
CGACACGCCTGGGG CGACATGCCTGGGG
CATTCTCTGCTGGACTTTTTGGGTTC
CCATGTTCTACTGGAGCAGAATTGAA CCATGTTCTACTGGAGCAGAATTGA

#### FIGURE SC

838	TATTAAGCATAAAGTGTTGCCACCATACTTCTTC 2651154dna TATTAAGAATGAAGTGTATGCACCATACCACTCCC 9443784
873 874	ССССАВСТСТСТСВПТТВСТССТСВАТ ССТСВАВССАВСТ 2651154dha САС-АСТСТТТССАТТТССТТСТСТОТ д443784
908	CTCTCCTAATATTCCACGTTTGTGCCCCACAA 2651154dha GTCTCCTAATGTTCTACCTTTGTGCTGCCGGGAA 9443784
939	CTAACGTGTGTCTTACATTGCCAAGTCAGGTGG CTTACGCATTCTTCCTACATTGCCAAGTACGTTGG
974 977	TACGGACTTCCTTTAGGATCTCAGGCTTCTGCAGT 2651154dna TATGGGGTTCCTTTAAGCTCTCTGAAAT 9443784
1009	TCTCATGACTCCTACTTTCATCCTAGTCTAGCAT 2651154dna TTTCAGCACATGTG-TTTTCACCCTGATCTAGGAT 9443784
1044 1045	TCTGCAACATTATATAGACTGGAAA GGAGA 2651154dna TCTGCAACATTGTTATAGACTGTAGGAAAGGGAGG 9443784
1077	ATTTGAAA-AATGCATAATAACTACTTCCATCCT ATTTAGGATAGATAATAACTATTCCCATCTTT 9443784

### FIGURE 5D

1111	GTTATTTTAATTGGGGGAAATAAATACATTCGA 2651154dha GTTTATTTTAATGTGGGGCATAAAGACATTCCT 9443784
1146 1150	AGGAA
1159 1185	
1159 1220	АААА GGGCGGCCCCGATTAT 2651154dna ТСТАААА GTACCCTGATGGCACCCCACTAC g443784
1180	T
1190	ATGGGCTGCAGTCCATGGGTCGCAAGAGTCGGAC g443784
1195 1325	CCGAC 2651154dna CCGACTGGGCGACTTCACTTCACTTTCACTTTCACTTTC g443784
1209	ATGTAAAACCCGTTCC 2651154dna ATGCATTGGAGAAGGAAATGGCAACCCACTCCAGT 9443784

#### FIGURE 5E

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1225 1395 1231 1430 1231 1465	GTTCTTGCCTGGAGAATCCCGGGGATGGAGGACCCCTGTTGAATCCCAGGGATGGAGGAGCCCCTGGAGAATCCCAGGGATGGAGGAGCCCCTGGAGGAGCCCCCAGGAGCCAGAGCAGAGCAGCAGCAGCAG	2651154dha g443784 2651154dha g443784 2651154dha g443784
1235 1500	AAGGCTTTCATTGTAATCCC	2651154dha g443784
1246 1535	GAACTAAGGAGAAGTGCTGAAACATCTTTGAA	2651154dna g443784
1246 1570	TTTGTTCTATGGTGGCTCCCAC	2651154cha g443784
1251 1605	- AATTCCCC-AAAAC	2651154dha g443784
1264 1640	ATCCAAGACAAGGCCCTGATCTTGAACAAACTGG	2651154cha g443784

#### FIGURE 5F

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1274 1675	GAAGCCT
1286 1710	TGCTGGTAACCTCAATTCTCCCACTAATTAAAAGT g443784
1292 1745	ACGTGAACTTTTGGGACAAAGGAGAGACTGTTAC g443784
1306 1780	
1306 1815	CAGGGAAGAAGCCAGCTGTTACTTAGTGAT 9443784
1318 1850	TTAGGGTGATCTGCACTGCAAAATTTTTTTT g443784
1322 1885	
1331 1920	

#### FIGURE 5G

2651154dna g443784

FIGURE SH